

Pranav Varma

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EDUCATION

University of Western Ontario

Honours Specialization in Computer Science

Awards: Western Scholarship of Distinction, RBC Design Thinking Fellow, Dean's Honors List 2x

Relevant Coursework: Data Structures & Algorithms, Data Science, Software Tools, Computer Organization, Linear Algebra

Expected April 2026

Average: 88%

EXPERIENCE

Google

May 2024 – Aug 2024

Software Engineering Intern (STEP)

Waterloo, ON

- Engineered interactive banner in **Google Workspace Marketplace** using **React/Node**-like framework tailored to enhance visibility for **30+** strategic partners, yielding a **20%** improvement in partner apps' monthly active users
- Implemented scalable **RESTful** API in **Java** to efficiently query databases for banner apps, optimizing queries and reducing promise response times by **16%** which led to reductions in user wait time and boosted platform reliability
- Collaborated with **cross-functional** teams to unify design language and to address inconsistencies in marketplace user experience across entire Workspace app suite, resulting in a **20%** increase in app downloads and user retention
- Deployed comprehensive testing suites (unit, screenshot, and integration tests) in **JUnit** and **Jest** to rectify critical bugs early in development cycle, achieving **90%** code coverage and significantly reducing post-deployment issues
- Supported the UX team in evaluating the necessity for a mobile redesign, contributing to user research and usability testing resulting in adoption of a **responsive** design that ensures an optimal viewing experience across all devices
- Annotated **300+** rows of key partner data used to train LLMs to identify likely sales lead information within emails

Royal Bank of Canada

Sept 2023 – Dec 2023

Design Thinking Fellow

London, ON

- Created a **Figma** app mock-up for financially at-risk immigrants to build wealth and learn about Canadian banks
- Leveraged insights from **design thinking** workshops to analyze pain points and create user-focused components
- Held **6** user interviews to guide user-centered design, yielding intuitive solutions that cut user error by **40%**
- Pitched design proposal to senior executives at **RBC** and **Ivey**, showcasing innovative concepts and solutions
- Developed demo in **Flutter** after the program's completion to display our idea's practicality and performance

Government of Ontario

May 2023 – Aug 2023

Systems & Software Developer Intern

Toronto, ON

- Modernized coroner's databases in **SQL** by streamlining data retrieval, caching frequently accessed data, and reducing excess computation, resulting in a **22%** decrease in database lookup and report building times
- Implemented a **Tensorflow** based machine learning model in **Python** to identify bias in case narratives, scene descriptions, sociodemographic data, appearance details, and coroners' notes with **86%** testing accuracy
- Developed new intake website in **React** and **Node** allowing forensic pathologists to efficiently log **1300+** new cases

Alibi

Apr 2023 – Aug 2023

Full-Stack Software Developer Intern

Toronto, ON

- Built the mobile application MVP for Alibi using **React Native** leading to **650+** user bookings at 8 venues
- Led the end-to-end design and development of user flows for the app in **Figma** and implemented key pages with React Native and **Tailwind CSS** for users to visit their profile, settings, bookings, and login pages
- Configured one time password verification and account management of **120** users using **Firebase** authentication

PROJECTS

Miso API | *Python, Cohere, ReactJS, Flask* | [GitHub](#)

A model that uses Cohere's Natural Language Processing to determine whether messages are gender discriminatory.

- Awarded the "**Best Hack** to Promote Female Empowerment Within STEM" out of **800+** hackers at UofTHacks X
- Scraped various online databases to curate a dataset of **20,000+** lines that was used to train our model
- Implemented Miso via **Python** Discord Bot and **ReactJS** site with a **RESTful API** on **Flask** which yielded a **92%** prediction accuracy for toxic messages and **84%** prediction accuracy for gender discriminatory messages

Qiwi | *NextJS, NodeJS, TailwindCSS, Web3.js, Solidity, HardHat* | [GitHub](#)

Blockchain-based loyalty program that leverages the Metis blockchain to offer a secure and sustainable rewards solution.

- Awarded the "**Best Sustainability Hack**" by Fidelity Investments and **Best Use of Metis** at Hawkhacks 2024
- Deployed smart contracts written in **Solidity** that allowed users to redeem, transfer, and receive **ETH**-based rewards
- Created landing page in **NextJS** that interacted with our smart contracts on the **Metis** blockchain using **Web3.js**

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, SQL, Dart, HTML/CSS, C++

Frameworks/Tools: ReactJS, NodeJS, NextJS, Express, Cohere, Flask, Flutter, Git, Unity, Xcode, Figma

Libraries: Tensorflow, Matplotlib, Tailwind, NumPy, OpenAI, Google Cloud, SDL, Selenium